25X1

[redacted]

[redacted]

25X1

REGISTERED

[redacted]

25X1

23 July 1965

Subject:
Request for Revision on Contract

Gentlemen,

In the course of design work on subject contract, agreements have been reached between [redacted] personnel and the customer's technical representative. These agreements have been documented in Section III of Progress Report Document [redacted] dated 14 July 1965. Since these agreements affect the technical documents which are called out in the scope of work of the subject contract, it is requested that the contract be revised to include these agreements. Therefore [redacted] encloses Addendum I to "Final Report Advanced Tilt-Top Light Table, Advanced Film-Viewing Light Tables Projects [redacted] [redacted]" dated July 1965. This Addendum I should be added to the contract as modifying the requirements called out in the scope of work in the contract. The items contained therein have been agreed to on a technical basis during the normal coordination. It is proposed that Addendum I be added to the contract with no change in estimated cost or fee.

25X1 25X1 25X1 25X1 25X1

If there are any questions in relation to this requested contract revision, please contact [redacted]

25X1

Very truly yours,

[redacted]

25X1

RJL/de
Att: (1)

CONFIDENTIAL

25X1

25X1

ADDENDUM I

to

FINAL REPORT

ADVANCED TILT-TOP LIGHT TABLE

ADVANCED FILM-VIEWING LIGHT TABLES

Projects

25X1

CONFIDENTIAL

"THIS DOCUMENT IS DECLASSIFIED WHEN SEPARATED FROM ENCLOSURE(S)."

July 1965

ADDENDUM I

25X1

25X1

25X1 The specifications defining the physical and performance characteristics shall be modified or interpreted by the following, where applicable.

1.0 PRECEDENCE OF SPECIFICATIONS

25X1 The documents governing the design and performance of the light tables shall be as follows in order of precedence:

a) Addendum I (dated July 1965) to Final Report. (The Final Report presented the results of the Design Study conducted under contract.)

b) Final Report dated February 1965.

c) Proposals dated April 23, 1964. 25X1

In areas where none of the above documents is specific, the Design Objectives shall apply.

2.0 SIZE

25X1 The light table shall have a maximum length of 34 1/4 inches not including spools, maximum width of 16 9/16 excluding handwheels and a maximum height of 10 1/4 inches of the viewing surface above the bottom of the base.

3.0 FILM TENSIONING

The mechanism for raising, lowering, and applying tension to the film shall be an electrically operated device, controlled by a switch which is a part of each handwheel assembly. It shall be a design goal to keep the lost motion (which is necessary to operate the switch) at the handwheel below plus or minus 10 degrees.

ADDENDUM I

25X1

25X1

ILLEGIB

4.0 FILM FLATNESS

It is understood that the degree of flatness achievable by the technique of applying tension depends greatly on the type and condition of the film being used, and it shall not be expected that the flatness will approach that obtainable with more sophisticated and costly methods such as a vacuum plate or an overlay platen.

5.0 SHADES

Minimum shade travel from the edge of the illuminated area shall be six inches, and locking of the shade position shall be achieved by friction in the shade operating mechanism.

6.0 SPOOL LOADING

The technique for spool loading shall be as follows: The operator, after setting the driving head to the correct position for the film spool used, will retract the drive spindle by pulling out a knob on the end of the spindle. A button in the center of the knob must be depressed first to unlock the spindle from its normal drive position. The spindle will automatically lock in the loading position giving ample clearance between the ends of the spool holding pins to insert the film spool. The operator will load the spool by first slipping it on the idling, or non-driving pin, and second, releasing the drive spindle from its locked position (by again depressing the center button). The end of the spring loaded drive spindle will enter the film spool, thus supporting it. The operator then simply rotates the spool until the driving pins on the spindle find the drive slot in the spool and snap into place.

ADDENDUM I

25X1

25X1

7.0 CENTER SUPPORT

The center film spool support shall be slid over to one side instead of hinged out of the way when using 9 1/2 inch wide film.

8.0 HIGH INTENSITY LIGHT SOURCE

The high intensity light sources shall be 1/2 inch in diameter and have a brightness of 30,000 foot-lamberts, and a color temperature of 3200 degrees K.

9.0 HANDWHEEL TO SPOOL RATIO

In the normal mode, the ratio between the hand-wheel and the spool shall be 1:1. In the high or slew mode, the ratio shall be 2.5:1 (spool faster).

10.0 MICROMETERS

25X1

The [redacted] micrometers used to position and measure the displacement of the X and Y carriages shall be metric reading with a least reading of one micron using a single line vernier [redacted] Drawing [redacted] is the micrometer outline. The micrometer readings shall increase in the X axis as the carriage is moved to the operators left and increase in the Y axis as the carriage is moved to the rear. Although the micrometer spindles are captive in nests on the carriages, it is intended that highest accuracy measurements be made approaching the targets in the directions of increasing micrometer readings. The position of the micrometers shall be as shown on our Drawing [redacted] the X axis unit being in back, and the Y axis unit being on the left side of the Y carriage.

25X1

25X1

25X1

[redacted]

[redacted]

ADDENDUM I [redacted]

25X1

25X1

11.0 GENERAL ILLUMINATION

It shall be permissible to have a single light box assembly [redacted] instead of separate units.

25X1

13.0 MISCELLANEOUS CONSTRUCTION FEATURES

13.1 Use of Ball Bearings

Ball bearings shall be used where necessary to minimize handwheel torques.

13.2 X-Y Carriage Castings

It shall be permissible to manufacture the translating carriages on the [redacted] designs from aluminum instead of cast iron in order to keep the weight and forces required to move them minimum.

25X1

25X1 13.3 [redacted] Base

It shall be permissible to manufacture the [redacted] base from aluminum plate rather than using a casting.

25X1